

Appendix table 4-27.

**Earned doctoral degrees in science and engineering in selected countries and regions: 1997 or most recent year**

Region/country	All doctoral degrees	Degree field					
		All S&E doctoral degrees	Natural sciences <sup>a</sup>	Math & computer sciences	Agriculture	Social sciences <sup>b</sup>	Engineering
<b>Total, three world regions</b>	159,235	90,577	38,643	6,048	6,176	15,417	24,293
<b>Asia</b>							
<b>Total</b> .....	35,219	18,513	6,533	609	2,363	1,029	7,979
China .....	6,042	5,328	1,678	334	348	325	2,643
India .....	9,070	4,000	2,950	NA	715	NA	335
Japan <sup>c</sup> .....	13,921	6,157	1,315	NA	1,043	388	3,411
South Korea .....	4,999	2,189	427	187	178	240	1,157
Taiwan .....	1,187	839	163	88	79	76	433
<b>Europe</b>							
<b>Total</b> .....	73,306	40,454	19,953	3,248	2,275	5,718	9,260
European Union .....	69,006	38,167	18,863	3,065	2,141	5,337	8,761
Austria .....	2,144	1,184	316	139	245	137	347
Belgium .....	602	373	191	19	66		97
Denmark .....	365	177	103	0	34	10	30
Finland .....	1,422	598	168	74	54	118	184
France .....	11,073	8,962	4,394	869	207	1,629	1,863
Germany .....	24,174	11,728	6,418	785	521	1,775	2,229
Greece .....	932	367	128	44	36	66	93
Ireland .....	423	307	234	13	14	10	36
Italy .....	3,463	1,643	770	22	156	85	610
The Netherlands .....	5,014	1,567	594	0	311	261	401
Spain .....	5,852	2,550	1,449	331	107	249	414
Sweden .....	2,549	1,580	473	204	102	181	620
United Kingdom .....	10,993	7,131	3,625	565	288	816	1,837
European Free Trade Assoc. .	4,300	2,287	1,090	183	134	381	499
Norway .....	643	425	145	32	32	88	128
Switzerland .....	3,657	1,862	945	151	102	293	371
<b>The Americas</b>							
<b>Total</b> .....	50,710	31,610	12,157	2,191	1,538	8,670	7,054
North America .....	47,273	29,408	11,032	2,183	1,130	8,467	6,596
Canada .....	3,834	2,165	629	171	116	759	490
Mexico .....	734	396	113	11	48	170	54
United States .....	42,705	26,847	10,290	2,001	966	7,538	6,052
South America .....	3,437	2,202	1,125	8	408	203	458
Argentina .....	408	382	218	8	97	18	41
Brazil .....	2,972	1,775	862	NA	311	185	417
Chile .....	57	45	45	NA	0	0	0

NA = not available

NOTES: Data are compiled from numerous national and international sources, and degree fields may not be strictly comparable. Data for Austria, Canada, China, Denmark, Finland, France, Germany, Ireland, Italy, Japan, the Netherlands, Norway, South Korea, Sweden, Taiwan, The United Kingdom, and the United States are for 1997. Data for Argentina, Belgium, Brazil, Chile, Mexico, Spain, and Switzerland are for 1996. Data for India and Greece are for 1994.

<sup>a</sup>Natural sciences here include physical, earth, atmospheric, oceanographic, and biological sciences.

<sup>b</sup>Social sciences include psychology, sociology, and other social sciences.

<sup>c</sup>Japanese data include "thesis" doctorates, called *Ronbun Hakase*, earned by employees in industry.

SOURCES: **ASIA: China**—National Research Center for Science and Technology for Development, unpublished tabulations; **India**—Department of Science and Technology, *Research and Development Statistics 1994–95* (New Delhi: 1996); **Japan**—Ministry of Education, Science, and Culture (Monbusho), *Monbusho Survey of Education* (Tokyo: annual series); **South Korea**—Ministry of Education, *Statistical Yearbook of Education* (Seoul: 1998); **Taiwan**—Ministry of Education, *Educational Statistics of the Republic of China: 1998* (Taipei: 1998); **EUROPEAN UNION: Austria**—Austrian Central Statistical Office, unpublished tabulations; **Denmark**—Department of Higher Education, Ministry of Education, unpublished tabulations (1997); **Finland**—Central Statistical Office, unpublished tabulations (1997), and Organisation for Economic Co-operation and Development and Centre for Educational Research and Innovation (OECD/CERI); **France**—Ministère de l'Éducation Nationale, *Rapport sur les Études Doctorales* (Paris: 1998); **Germany**—Statistisches Bundesamt, *Prüfungen an Hochschulen* (Wiesbaden: 1998); **Greece**—OECD/CERI; **Ireland**—OECD/CERI; **Italy**—OECD/CERI; **The Netherlands**—Department for Statistics of Education and Science, Netherlands Central Bureau of Statistics, unpublished tabulations (1997); **Spain**—OECD/CERI; **Sweden**—Statistics Sweden, unpublished tabulations (1997), and OECD/CERI; **United Kingdom**—Higher Education Statistical Agency, *Students in Higher Education Institutions, 97/98* (Cheltenham: 1999); **EUROPEAN FREE TRADE ASSOCIATION: Norway**—Institute for Studies in Research and Higher Education, the Norwegian Research Council, unpublished tabulations (1997); **Switzerland**—Swiss Federal Statistical Office, unpublished tabulations (1997); **THE AMERICAS: Argentina**—Ministry of Education and Culture, unpublished tabulations (1999); **Brazil**—Ministério de Educação e Cultura, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES) (Brasília); **Canada**—Association of Universities and Colleges of Canada, unpublished tabulations (1998); **Chile**—Consejo de Rectores Universidades Chilenas, unpublished tabulations; **Mexico**—Asociación Nacional de Universidades y Instituciones de Educación Superior, *Anuario Estadístico 1997 Posgrado* (Mexico, 1997); and **United States**—National Science Foundation, Division of Science Resources Studies (NSF/SRS), *Science and Engineering Doctorate Awards: 1997, NSF 99-323* (Arlington, VA: 1999).

See figure 4-18 in Volume 1.

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